CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/CR/17/2021-2022 Date:14.04.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore

Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :March-2021
Date of Testing 12.04.2021 to 14.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEE

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	80	8.00	8.00	92.0	90-100
2.36	115	11.50	19.50	80.5	75-100
1.18	175	17.50	37.00	63.0	55-90
. 600 Micron	225	22.50	59.50	40.5	35-59
300 Micron	178	17.80	77.30	22.7	8-30
150 Micron	145	14.50	91.80	8.2	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2874	57.5	61.5	38.5	25-55
4.75	1845	36.9	98.4	1.6	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client	**: Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing	14.04.2021
IS Code	:IS 383:2016
	:IS 2386 (Part 1):1963(RA 2011)
Material	: 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	202	1.35	1.35	98.65	95-100
20	8452	56.35	57.69	42.31	30-70
10	3145	20.97	78.66	21.34	10-35
4.75	2653	17.69	96.35	3.65	0-5

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Plastering Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	6	0.60	0.60	99.4	95-100
2.36	22	2.20	2.80	97.2	95-100
1.18	35	3.50	6.30	93.7	90-100
600 Micron	74	7.40	13.70	86.3	80-100
300 Micron	245	24.50	38.20	61.8	20-65
150 Micron	505	50.50	88.70	11.3	0-15

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Masonry Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	35	3.50	5.10	94.9	70-100
600 Micron	82	8.20	13.30	86.7	40-100
. 300 Micron	245	24.50	37.80	62.2	5-70
150 Micron	475	47.50	85.30	14.7	0-15

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Lab No.: CQCE/BBMP/CR/17/2021-2022

Date: 22.04.2021

KERB STONE (CORE) TEST REPORT

Client	:	: Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency	:	: Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work	:	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	22.04.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.360	2291.83	1.60	0.957	26.60	13.55	14.63	14.00	17.50
2	50.00	80.00	0.369	2349.13	1.60	0.957	25.10	12.78	13.81	13.21	16.51
3	50.00	80.00	0.364	2317.30	1.60	0.957	28.30	14.41	15.57	14.89	18.62

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.065	253.3	11.26
2	26.04.2021	03.05.2021	8.021	246.6	10.96
3	26.04.2021	03.05.2021	8.009	263.3	11.70

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.121	269.9	12.00
2	26.04.2021	03.05.2021	8.030	258.2	11.48
3	26.04.2021	03.05.2021	8.096	249.9	11.11

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.066	246.6	10.96
2	26.04.2021	03.05.2021	8.021	260.2	11.56
3	26.04.2021	03.05.2021	8.148	285.5	12.69

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 17.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2021	17.05.2021	8.033	265.5	11.80
2	10.05.2021	17.05.2021	8.025	249.9	11.11
3	10.05.2021	17.05.2021	8.014	260.1	11.56

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 17.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2021	17.05.2021	8.202	259.9	11.55
2	10.05.2021	17.05.2021	8.145	268.8	11.95
3	10.05.2021	17.05.2021	8.036	274.3	12.19

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 17.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2021	17.05.2021	8.202	246.6	10.96
2	10.05.2021	17.05.2021	8.155	250.2	11.12
3	10.05.2021	17.05.2021	8.036	263.3	11.70

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer, R R Nagar** Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	22.05.2021	8.065	365.5	16.24
2	26.04.2021	22.05.2021	8.021	349.9	15.55
3	26.04.2021	22.05.2021	8.096	360.1	16.00

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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Cross Sectional Area	: 22500 mm^2
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Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	22.05.2021	8.202	385.5	17.13
2	26.04.2021	22.05.2021	8.110	375.5	16.69
3	26.04.2021	22.05.2021	8.089	369.1	16.40

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